## In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A retarded electric motor having an operating mode and a braking mode, said motor comprising:

at least one field winding;

one commutating armature being connected in series with said at least one field winding;

a first valve lying in series with said field winding and said armature connecting said field winding and said armature to a supply voltage when being in said operating mode;

a second valve for bypassing said armature when being in braking mode;

a third valve configured as a free wheeling valve and being connected at least across said field winding and

a forth valve for connecting said field winding to said supply voltage for external excitation when being in said braking mode;

a control for controlling said valves to connect said armature and said field winding in series with said supply voltage when being in said operating mode, to connect said field winding to said supply voltage for externally exciting said field winding by means of said supply voltage while bypassing said armature via said second valve and limiting the voltage across said field winding by means of said third valve when being in said braking mode.

2. (Previously presented) The retarded electric motor of claim 1 wherein said first valve is configured as a triac controlled by a phase current phase control.

Page 4

Serial No. 10/625,176

Response to Official Action

3. (Previously presented) The retarded electric motor of claim 1 wherein said sec-

ond valve is configured as a thyristor.

4. (Previously presented) The retarded electric motor of claim 1 wherein said third

valve is configured as a thyristor.

5. (Previously presented) The retarded electric motor of claim 1 wherein said first

valve is configured as transistor.

6. (Previously presented) The retarded electric motor of claim 5 wherein said first

valve is configured as a field effect transistor controlled by a pulse duration modulation.

7. (Previously presented) The retarded electric motor of claim 1 wherein at least

one of said valves comprises an optical coupling device.

8. (Previously presented) The retarded electric motor of claim 1 wherein said con-

trol is configured as a microcontroller.

Claims 9-28 (Canceled)

29. (Previously presented) A retarded electric motor configured as an asynchronous

motor comprising:

at least two field windings;

a squirrel cage rotor;

a switch for switching between operating mode and braking mode being config-

ured to disconnect at least one field winding from the supply voltage when being in said

braking mode;

a first valve connected across at least one field winding and being configured as a free wheeling valve for limiting the voltage across said field winding when being in said braking mode; and

a second valve for connecting at least one field winding to the supply voltage for external excitation when being in said braking mode;

wherein said first and second valves are open when being in said operating mode and being closed when being in said braking mode.

- 30. (Previously presented) The retarded electric motor of claim 28 comprising three field windings in star connection.
- 31. (Previously presented) The retarded electric motor of claim 29, wherein said switch is configured for disconnecting at least two field winding from the supply voltage when being in said braking mode.
- 32. (Previously presented) The retarded electric motor of claim 30, wherein said first valve is connected across at least two field windings for limiting the voltage across said two field windings when being in said braking mode.
- 33. (Previously presented) The electric motor of claim 28, wherein at least one of said valves is configured as a triac being connected in series with a diode.
- 34. (Previously presented) The electric motor of claim 32, wherein said second valve is configured as a triac being connected in series with a diode and being controlled by a phase current control, said phase current control operating at a current flow angle of 180° during braking mode, and operating at a current flow angle of #180° for regulating the braking during braking mode.

Page 6 Serial No. 10/625,176 Response to Official Action

35. (New) A retarded electric motor having an operating mode and a braking mode, said motor comprising:

at least one field winding;

one commutating armature being connected in series with said at least one field winding;

a first valve lying in series with said field winding and said armature connecting said field winding and said armature to a supply voltage when being in said operating mode;

a second valve for bypassing said armature when being in braking mode;

a third valve configured as a free wheeling valve and being connected at least across said field winding and

a control for controlling said valves to connect said armature and said field winding in series with said supply voltage when being in said operating mode, to connect said field winding to said supply voltage for externally exciting said field winding by means of said supply voltage while bypassing said armature via said second valve and limiting the voltage across said field winding by means of said third valve when being in said braking mode, wherein said first valve is configured as a triac controlled by a phase current phase control, or a transistor.

- 36. (New) The retarded motor of claim 35 wherein said first valve is configured as a field effect transistor controlled by a pulse duration modulation.
- 37. (New) The retarded electric motor of claim 36 wherein said supply voltage is configured as an AC voltage supply, and said field effect transistor is connected via a rectifier to said supply voltage and said field winding.
- 38. (New)The retarded electric motor of claim 36 wherein said supply voltage is configured as a DC voltage supply, and said field effect transistor is connected in series with said field winding and said supply voltage supply.

- 39. (New) The retarded electric motor of claim 38 wherein said second valve is configured as a thyristor and said third valve is configured as a diode.
- 40. (New) The retarded electric motor of claim 35 wherein said first valve is configured as a triac driven by a phase current control is configured for controlling the motor during operating mode and during braking mode.
- 41. (New) The retarded electric motor of claim 40 wherein said supply voltage is an AC supply voltage and wherein said phase current control drives only one half wave when being in said braking mode.
- 42. (New) A retarded electric motor having an operating mode and a braking mode, said motor comprising:

at least one field winding;

one commutating armature being connected in series with said at least one field winding;

a first valve lying in series with said field winding and said armature connecting said field winding and said armature to a supply voltage when being in said operating mode;

a second valve for bypassing said armature when being in braking mode;

a third valve configured as a free wheeling valve and being connected at least across said field winding and

a control for controlling said valves to connect said armature and said field winding in series with said supply voltage when being in said operating mode, to connect said field winding to said supply voltage for externally exciting said field winding by means of said supply voltage while bypassing said armature via said second valve and limiting the voltage across said field winding by means of said third valve when being in said braking mode, wherein said third valve is connected in series with a load resistance

to said supply voltage or connected in series with said field winding, a load resistance and at least one excitation winding to said supply voltage.

43. (New) A retarded electric motor having an operating mode and a braking mode, said motor comprising:

at least one field winding;

one commutating armature being connected in series with said at least one field winding;

a first valve lying in series with said field winding and said armature connecting said field winding and said armature to a supply voltage when being in said operating mode;

a second valve for bypassing said armature when being in braking mode;

a third valve configured as a free wheeling valve and being connected at least across said field winding and

a control for controlling said valves to connect said armature and said field winding in series with said supply voltage when being in said operating mode, to connect said field winding to said supply voltage for externally exciting said field winding by means of said supply voltage while bypassing said armature via said second valve and limiting the voltage across said field winding by means of said third valve when being in said braking mode, wherein said second valve is connected in series with an excitation winding in parallel to said armature.

- 44. (New) The retarded electric motor of claim 43, wherein at least one of said valves comprises an optical diode.
- 45. (New) The retarded electric motor of claim 43, wherein at least one of said valves comprises an optical triac.